

536, 804  
Rec'd PCT/PTO 27 MAY 2005

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
17 June 2004 (17.06.2004)

PCT

(10) International Publication Number  
**WO 2004/050914 A1**

(51) International Patent Classification<sup>7</sup>: C12Q 1/68,  
G01N 33/50

(74) Agents: SUTCLIFFE, Nicholas, R. et al.; Mewburn Ellis, York House 23 Kingsway, London, Greater London WC2B 6HP (GB).

(21) International Application Number:

PCT/GB2003/005223

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date:

28 November 2003 (28.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0227908.1 29 November 2002 (29.11.2002) GB

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (*for all designated States except US*): UCL BIOMEDICA PLC [GB/GB]; Brook House, 2-16 Torrington Place, LONDON, Greater London WC1E 7HN (GB).

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.



WO 2004/050914 A1

(54) Title: CANCER ASSOCIATED PLEXINB1 MUTATIONS

(57) **Abstract:** The present inventors have identified cancer associated mutations in plexinB1, which is a transmembrane receptor that mediates semaphorin signalling. The frequency of plexinB1 mutations, in particular in prostate and breast cancer, indicates that plexinB1 may be useful in the screening and diagnosis of cancer and as a drug target in the development of anti-cancer therapeutics.